



# Summer Mustang

## California State Polytechnic College

VOL. XXIX, NO. 52

SAN LUIS OBISPO, CALIFORNIA

FRIDAY, JULY 28, 1967

### No secrets here

## Jellyfish exposed in senior project

Little jelly fish are being watched by Mrs. Charles Dilla in the Biology Department. This is part of her senior project.

The jellyfish, known as Polyorchis haplus (generic name), were collected in Morro Bay by Mrs. Dilla. These fish are about a half inch in diameter and half an inch long. They are relatively common but being nearly transparent they are not often seen by most people. They are kept in a salt water aquarium at a temperature of about 50 degrees Fahrenheit. This temperature is slightly below that of Morro Bay, but it helps retard the jellyfish's metabolism making it easier to observe them.

The jellyfish propel themselves by jet action. They take in water slowly and with a strong muscular squeeze eject the water moving on a jet principle of action.

The Polyorchis haplus eat small crustaceans copepods con-

tained in plankton which are microscopic animals. When one of these small animals comes in contact with the tentacles of the jellyfish it is stung by the nematocyst cells which have a paralyzing effect on the prey. The tentacles then transfer the copepods to the mouth.

Polyorchis haplus is distantly related to the Portuguese Man of War whose sting is painful and can cause a rash because of its nematocyst cells on the tentacles. It alone can not kill a person but a number of them might cause death. There is one type of jellyfish, called Sea Wasp, near Australia that can kill a human being, but it is the only one known to be able to do so far. Their nematocyst cells contain a strong poison of toxin.

The primitiveness of the Polyorchis makes it interesting to watch. It is very low on the evolutionary scale and has a simple nervous system.

The larva goes to the bottom of the ocean and is sessile (attached to the bottom). It looks like a plant colony at this stage. As growth continues it buds off the medusae (sexual stage). The medusae are almost mature and then develop gonads and they bud off the eggs and sperm starting the cycle over again.

### A CULTURAL EXCHANGE

The tornado poetry competition of England has opened at 101 Vera Avenue, London, N. 21, England. Judge for the contest will be the distinguished London poet, Mr. Nigel A. L. Brooks.

Besides Book Prizes, a Spring Anthology, 1968 of winning poems will be published.

Rules for poetry entries may be obtained from Leon Spiro, P.O.B. 731, Sausalito, 94965 by sending a self-addressed stamped envelope.

American competition and participation is highly desired.

## School open

Registration for the second summer session enrollment was 209. Six classes were cancelled, and chemistry classes were not offered because of lack of enrollment. Most classes in education were maintained.

The college catalog states:

"Except for College recognized emergencies, no withdrawals from a course will be permitted after the end of the seventh week of instruction." The seventh week of instruction ends at noon, August 5.

Across the nation, however, reports came to Poly indicating that our six million students in college will increase to nine million by 1975, says the June Reader's Digest. New colleges and universities are springing up at the rate of one a week to meet the influx.

## Courses offered to P.E. instructors

The 20th Annual California Workshop for Physical Education and Athletic Coaching is scheduled to be held here August 7 to 18, 1967.

The objective of the workshop is the upgrading of athletic coaching and the teaching of physical education in secondary schools of California. The workshop is offering sixteen courses and six seminars.

The newest three-story, air conditioned residence halls will be available as living quarters for workshop participants and their families. The halls are within easy walking distance of the Men's Physical Education Building. Most of the workshop sessions will be held there.

Each hall has a lounge and recreation area. Limited off-campus housing for families is also available. Meals may be had a la carte in the college dining hall, which is directly opposite the Men's Physical Education Building.

Participants will have a choice of the many courses offered. C. Carson Conrad, Chief of the Bureau of Health Education, Physical Education and Recreation, State Department of Education, will direct the courses on Administration and Supervision. This section is for high school, junior college and college department chairmen, athletic directors and physical education supervisors.

Badminton and baseball programs will be instructed by Dr. Frank Jones and Len Bourdet, respectively. Jack H. Gardner will

direct the courses on basketball. Len Bellisimo will teach bowling. Don Coryell will instruct football.

Other courses offered are golf, instructed by Dave Mancour, gymnastics by Vic Buccola, physical education by John Klumb, soccer by Norm Friedberg, and swimming and water polo by and for accommodations can be coached swimming here for twenty years.

Couch Anderson has developed four state championship teams, five All-Americans and a member of the 1960 Olympic team.

The tennis program will be under the direction of Louis E. Wheeler. Track will be directed by Charles Coker. Jack Hearn will be in charge of volleyball. Weight training handled by Don W. Kloppenburg, and wrestling by Vaughn Hitchcock.

The following seminars will be offered: Football rules, Eric Johnson; Football, Ron Coryell; Baseball, Len Bourdet; Basketball, Jack Gardner; Track, Chuck Coker; Basketball rules, Merrill Gilbert.

Reservations for the workshop and for accommodations can be made by writing to the P.E. Workshop Committee, California State Polytechnic College, San Luis Obispo, California.

Two quarter units of professional credit can be obtained for successful completion of one week of the workshop or four quarter units for completion of two weeks.

## Grant award for virus study

Harry C. Finch, Ph.D., of the Biological Sciences Department here has been awarded a \$1,950 research grant.

The research project on soybean viruses was started about four years ago with a grant from the National Science Foundation for summer research at Purdue University. Dr. Finch's research at that time, considered transmission of viruses by insects.

The present project, which Finch expects to have completed by November, 1968, was initiated in November, 1966.

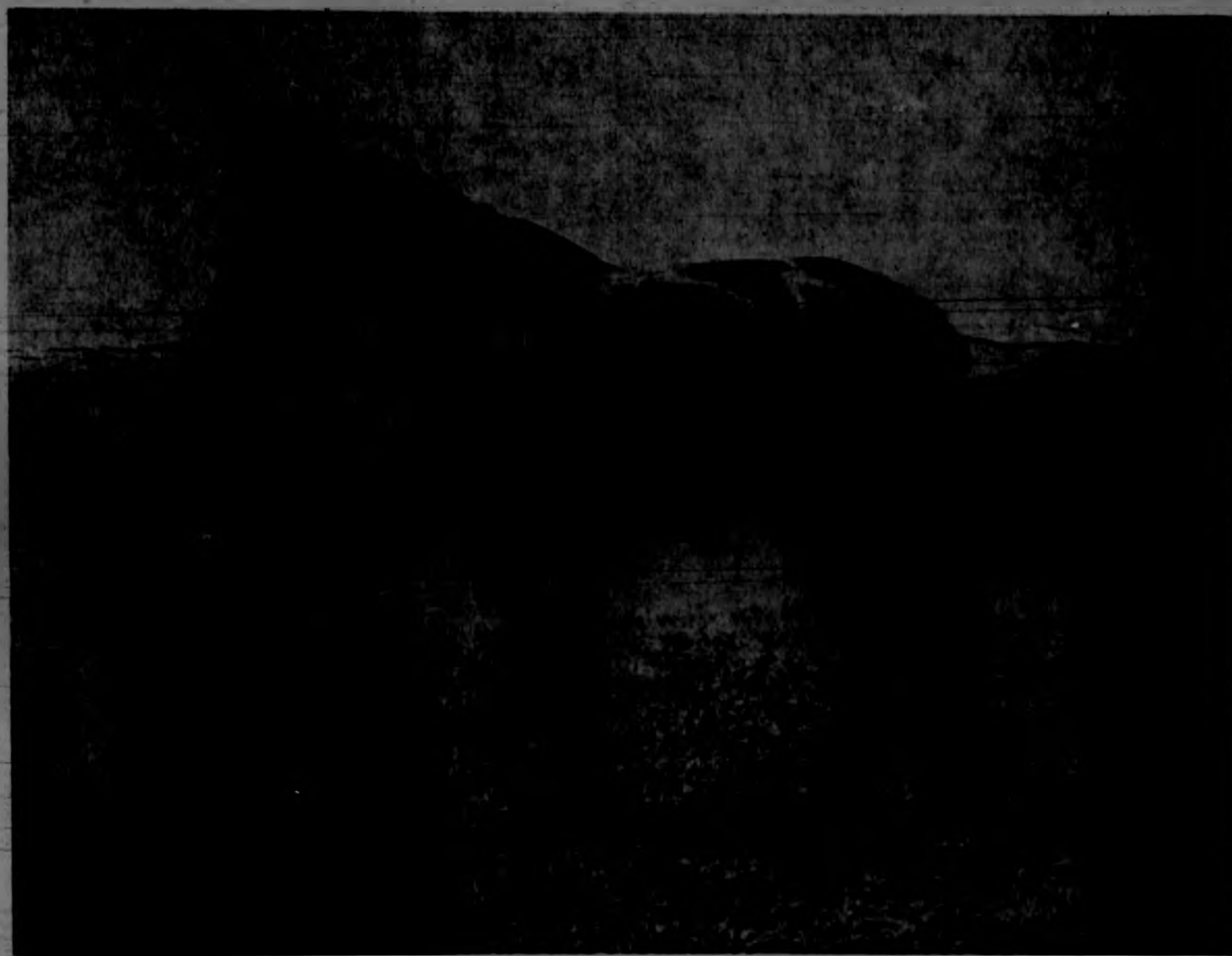
The National Science Foundation Academic Year Extension Grant is administered through the foundation here. The principal cost to be paid for by the grant are Dr. Finch's salary during the summer months and the purchase of necessary chemicals and equipment for the study. Money from the grant will also be used for student assistance on the project and for travel to meetings and to the virus laboratory at University of California campuses.

Dr. Finch has three objectives for the project: to cure soybeans of virus, to utilize virus as a genetic tool, and improve agronomic characteristics of soybeans through breeding.

This project is appropriate in terms of local college functions because materials and methods used will be immediately applicable in presentation of Botany 65, Plant Pathology. Students will learn new techniques in plant pathology which will be useful to them in career in agriculture. Dr. Finch says the project is immediately applicable to California agriculture because soybeans are one of the expanding California crops.

Publication of the results of the study will be made through Purdue University and will be paid for by that institution, the American Society of Phytopathology, or the Cress Research Division.

One of the U S Department of Agriculture.



The Agriculture Department has become the proud possessors of a \$10,000 thoroughbred mare, Windy City has been added to the big time. Because Windy City was in town when she was purchased, the college actually obtained two horses for the price of one. The cost of the mare will be partially covered by the prices that her

foals bring on the open market. The thoroughbred section has sold several yearlings through local and state auctions. The purchase of Windy City is another step in the program of the Agriculture Department to raise the already high line. Punch Haskell is shown with the mare and her colt.

Photo by Mattie



## Instructional advise Guatemalan farm methods

Philip Bromley, class program coordinator here, and his wife Martha, are leaving for Guatemala City, Mexico this week.

Bromley is the 4th member of a team filling a new agricultural education overseas contract. Other members are Kermit Adams, agriculture instructor at Delano High School, Jerald Arnold, agriculture instructor at Coachella High School and Robert McColaugh, agriculture instructor at Sierra Union High School.

Adams and Arnold flew to Guatemala City recently with their families. McColaugh flew with his family to Guatemala City from California.

Bromley will serve as Chief of Party at Barcena School in Villa Nueva, Guatemala City. Arnold will specialize in livestock teaching and agricultural mechanics.

McColaugh will act as an agricultural education advisor on a mobile audio-visual unit. Bromley will team up with McColaugh on the mobile unit.

The overall goal of the four-man team is to improve agricultural production in Guatemala. The immediate objective is to improve the technical knowledge and the teaching methods of the Guatemalan farm advisor.

Adams and Arnold will do this at the Barcena School where potential farm advisors are in training. Bromley and McColaugh will advise and assist in four selected villages where farm advisors are already in the field.

All four members of the team are employed by the college here. The Overseas Campus Coordinator will administer the Guatemala project along with other programs in Thailand and Africa.



**FRIENDLY PROBLEM SOLVER** . . . This computer has solved over 16,000 problems this year, and has provided the basis for a new kind of "mathematical experimentation." It is for use for any student in the Math Department. (photo by: Matlock)

## Computer Center to assist students and administration

The technology of data processing is still in a rapid state of growth, and a whole new engineering art has developed around electronic computing.

This college now has tentative plans for the construction of a Computer Science building. The new building will be the Central

ized Computer Data Processing Center for the campus.

According to Dr. Buschman, head of the Computer Center here, the first IBM computer was installed in 1964 and has provided computer capacity for students, faculty and administrative staff.

During the past year, students submitted over 40,000 problems for computation. The computer has aided students and staff members in many fields such as engineering, mathematics, business, technical arts, and farm management.

Computers now provide for means for a new kind of "mathematical experimentation." Dr. Joseph O. Hirschfelder, Director, Naval Research Laboratory, University of Wisconsin, has written that "by solving the theoretical equations for a chemical property we obtain results in the mathematical laboratory compar-

able to those which would be obtained in a chemistry laboratory. High-speed computing enables us to improve our basic theories by making feasible more and better comparisons between theoretical predictions and actual observations."

It is now generally recognized that every university should have an up-to-date computation laboratory, complimented by a strong program in numerical analysis and computer technology. Certainly there has been little doubt in the minds of those persons in business, industry and government who are interested in employing college graduates with training in the field of computer technology and computer application.

The computer center here is available to students for class projects and instructional purposes. It has been utilized in thirty senior projects this past year, in addition to the numerous problems submitted by the students.

Besides aiding students and faculty, the Computer Center and its staff has been a great asset to the administration department. Through the use of the Computer Center the records department is able to process, post, and upgrade all G.P.A.'s in a sixteen hour operation.

The rapid expansion of computing has created a large demand for trained personnel to operate computers, to program problems for them and to formulate problems.

Dr. Buschman said that many of the related schools and departments here, in addition to the mathematics department, are including data processing programs into their curriculum.

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# New ASI Vice President describes African home life

Amos Ngongi lives in a country on the west coast of Africa where elephants, lions and elk run free in expansive parks.

"Of course, the animals are protected by laws," he begins. "Our people are more concerned with agriculture than hunting."

His father is an agricultural officer for the state of West Cameroon. Amos is majoring in crops and plans to return home to work in the agricultural extension service.

The agricultural extension service is a state job which involves advising various farmers in the country," Amos explains. "If one farmer is having a problem with his crops, the extension service will visit him and try to solve the problem for him."

Amos is currently working on his senior project which is a study of sudangrass for pasture. He will test small plots of sudangrass for response to fertilizers to determine which plot will give the best yield. He schedules graduation for June.

When asked to describe his country, Amos explains that "Cameroon is divided into two federated states—a large East Cameroon and a smaller West Cameroon."

He lives in a commercial town, Victoria, in West Cameroon with his parents, two brothers and a sister. Amos is the oldest child in the family.

"Two large dogs are also part of the family," he adds.

Amos went on to explain the historical background of his country.

"France passed a statute in 1960 conferring integral autonomy, a degree of self-government, in Cameroon. This statute was the first step toward our complete independence which took place in 1960," he says.

"One year later, following a referendum by the UN, Cameroon joined the Republic to form the Federal Republic of Cameroon which was composed of East and West Cameroon," Amos adds.

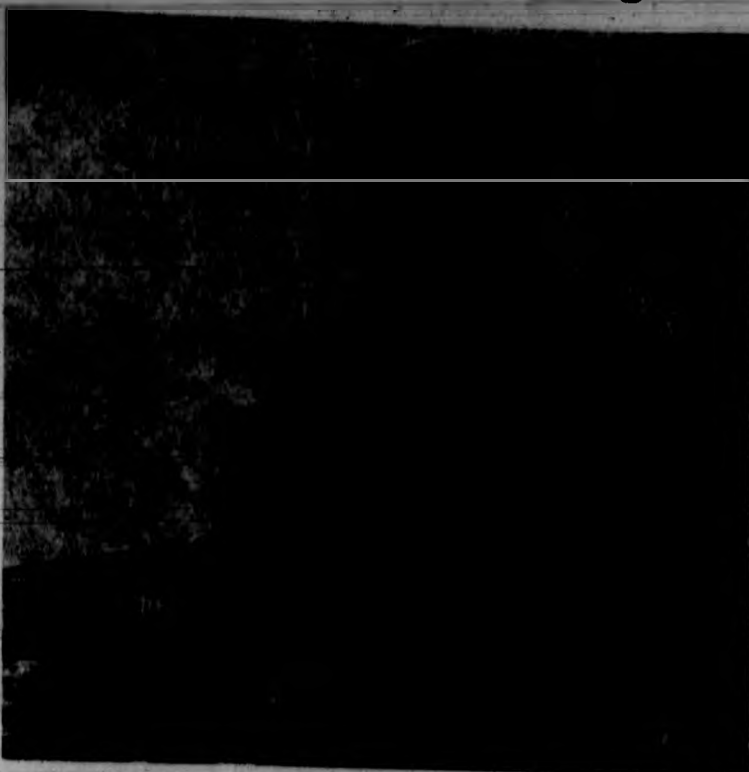
The government is a unicameral 50-member Federal Assembly. Forty members are from the large eastern zone and ten members are from the western portion.

The population comprises some 200 tribes. Amos is from Bakweri.

He points out that "the difference between tribes are not stressed in the schools or at home; they are living in harmony and do not conflict with one another."

School in Cameroon begins with seven years of grade school. High school consists of an additional five years of study.

One of the things which distinguishes Cameroon schools from US schools is that a student may continue in high school for two more years, after the initial five, to prepare for university studies. These post-secondary



Amos Ngongi enjoys a San Luis Obispo evening. He is studying cropshare and will return to his home country of West Cameroon, Africa, to work in the agricultural extension service.

studies count toward university credit.

College studies include four or five years of school; some students take longer than others to fulfill the requirements.

"I was taught both English and French, but French is the language which is usually spoken," Amos adds.

"Cameroon's population is composed of about 600,000 Moslems and 600,000 Christians," he says.

"One peculiar fact is that our president is Moslem and our vice president is Catholic. No one planned it this way, but it causes no religious conflict," he adds with a smile.

At home Amos enjoys going to the beach, movies, parks and parties.

He plays tennis, soccer and table tennis, and he finds time to collect coins.

While in the US he has traveled through many states and toured through Texas up to Utah and back to California.

He lives near campus in an apartment with Hassane Hanna, a foreign student from Niger.

"Most people have the impression that foreign students hoard all sorts of souvenirs from home," Amos says.

"I brought myself from the Republic of Cameroon and little else," he concludes.

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Published three times a week during the school year except holidays and exam periods by the Associated Students, Inc., California State Polytechnic College, San Luis Obispo, California. Printed by students majoring in Printing Engineering and Management. Opinions expressed in this paper are those of the editors and writers and do not necessarily represent the opinions of the staff, views of the Associated Students, Inc., nor official opinions. Subscription price is \$3 per year in advance. Office Room 326 Graphic Arts Building, California State Polytechnic College. Phone 543-2130.



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## Sports



# California takes 6 out of 11 in Junior Olympic wrestling



Jim Teem, former Mustang varsity wrestler, referees one of the many matches held during the two day Junior Olympic wrestling meet, held here in the Men's Gym recently. Sectional winners will go on to Chicago for the pre-championships, and the winners will then go to Dallas for the Junior Olympic championships.

Photo by Nathan

## College gains football coach

A high school football coach who quarterbacked the Oregon Ducks in the 1960 Liberty Bowl game, has been named freshman football coach here.

Appointment of Dave Gross to the position was announced jointly by Dr. Robert Mott, head of the physical education department, and Dick Anderson, director of athletics.

Gross, who will be 29 on August 24th, has been head football coach at Hoquiam, Wash. the past three years. The former Canadian League defensive back and quarterback plans to arrive in San Luis Obispo by August 15.

The new football staff member was recommended by his former coach, Len Casanova, athletics director at Oregon. Casanova advised Gross of the opening during a coaching clinic in Eugene last month. The Mustangs' head football mentor, Sheldon Harden, played for Casanova as a freshman at Santa Clara.

"I'm really excited about the opportunity," Gross said in a telephone interview. "One of my goals in coaching was to advance to the college level."

Coach Harden commented, "We feel he will be a fine addition to our staff. We are fortunate to be able to obtain his services at Cal Poly."

Gross was the starting quarterback for Oregon's Ducks under Casanova for three years. He was named on the All-Pacific Coast team in his senior season of 1960 when Oregon had a 7-2-1 record and played in the Liberty Bowl, losing to Penn State, 41-12. The Ducks had an 8-2 record with Gross at the controls as a junior.

In 1961 Gross played pro football for the Saskatchewan Roughriders. After four games as a defensive back he replaced former Michigan star Bob Placek as the regular quarterback and started the last 12 games.

Traded in the off-season, he played for the Montreal Alouettes as a defensive cornerback in the 1962 season. The Alouettes made the Eastern Division playoffs but lost to Grey Cup finalist Hamilton. He started the 1963 season with the Edmonton Eskimos but was released after the first game.

After spending the 1963-64 school year working as a substitute teacher in the Seattle area he was named head football coach at Hoquiam, Wash. Hoquiam, located on the Pacific coast 100 miles west of Seattle, is a member of the Southwest Washington League.

He coached Hoquiam to a 6-3-1 record and a third place finish in the eight-team league in his first season of 1964. His teams had 2-8 and 4-5 records the next two seasons. Gross, who served as Hoquiam athletic director last year, had a 12-16-1 overall high school coaching record. The school is the smallest member of the league with an enrollment of 700. Other league members have enrollments ranging between 1,200 and 1,500 students.

He was twice named to the All-Puget Sound League team in football prior to his 1965 graduation. Gross was an all-league forward in basketball and an all-conference outfielder in baseball as a senior. The metropolitan Seattle league is one of the largest in the state.

The entry list reached 41 wrestlers for the Sectional tournament in the Junior Olympic program, held here recently in the Men's Gym.

The young matmen, all 14 years of age or younger, competed for championships in 10 weight classes. The Sectional winners qualified for the U.S. tournament to be held August 6 in Chicago. The National winners there will move on to Haskova, Bulgaria for the first annual Junior World Wrestling Championships, on August 22-27.

Olympic freestyle rules governed the round robin tournament, with points being scored by the bad mark system. The bad mark system includes these rules: winner by fall, zero points; loser, 4 penalty points; Winner by decision, 1 point; loser, 3 penalty points; Draw - two penalty points to each wrestler; Draw bout without scoring - In the event of a draw bout, with no score or with one or two points given for stalling, each contestant shall receive 2½ penalty points; "Evident Superiority" - Should a contestant win a decision by 10 points or more, he shall receive a penalty point; the loser receives 3½ penalty points. Each wrestler was disqualified after an accumulation of 6 penalty points.

The sectional champions are: Larry Morgan, East High, Kersfield, California, 106 lbs.; Ramiro Sandoval, Lincoln, Diego, California, 114½ lbs.; Mike Roth, Corvallis, Oregon, 123 lbs.; Rennie Shearer, East High, Bakersfield, California, 132 lbs.; Eugene Walker, South High, Bakersfield, California, 143 lbs.; Brad Davis, John Rodgers H.S., Spokane, Washington, 154 lbs.

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